



Central Middle School Swale Restoration



Clean Water Funds: 2012

Clean Water Grant	\$55,800
Leveraged Funds*	\$18,600
Total Project Budget	\$74,400

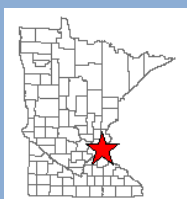
* Leveraged Funds include

Targeted Water:
Lambert Creek

Project Sponsor:
Vadnais Lake Area Water
Management Organization

Grant Period:
January 2012—December 2014

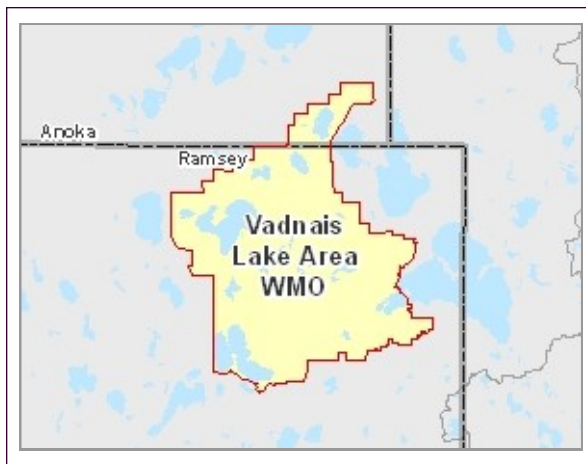
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C12-114 - Clean Water Assistance

Project Narrative

Lambert Creek discharges into Vadnais Lake, the final impoundment reservoir containing the potable water supply for the city of St. Paul and eight nearby suburbs. Monitoring data indicates high nutrient levels and the creek is listed by the State as having high bacterial levels. In-stream work along Lambert Creek has been maximized with restoration improvements achieving nutrient load reduction. The next step to further improve water quality is to concentrate on restoration efforts on a subwatershed level. A 2010 subwatershed retrofit study was conducted and targeted the most cost-effective means to reduce excess phosphorus levels.



As a result of the assessment, the restoration of the Central Middle School swale was identified as a priority. The swale currently is not functioning as intended and has limited water quality treatment benefits. In addition to providing water quality treatment, this project will also provide educational opportunities for students and staff at the school.

Proposed Outcomes:

Central Middle School Swale Installation -
Lambert Creek

Proposed Reductions: 3 acre-feet Hydrology ,
2 lbs/year Phosphorus and ~1 ton/year Sedi-
ment

Actual Outcomes:

Project in Progress



Central Middle School—Looking North



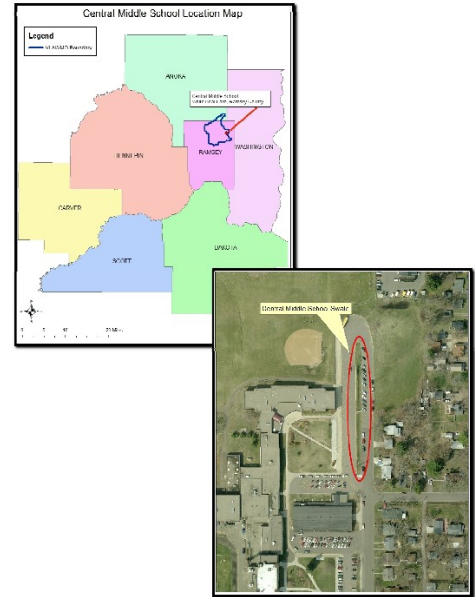
Central Middle School — Looking South



Central Middle School — Close up of Outlet Drain

Central Middle School Swale Restoration

MAP FOR CENTRAL MIDDLE SCHOOL INFILTRATION SWALE AND EDUCATION PROJECT



MAP FOR COMMUNITY BLUE: VLAWMO PARTNER CONSERVATION PROGRAM

